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☐ 1. Document ID: US 20020055721 A1

L6: Entry 1 of 10

File: PGPB

May 9, 2002

PGPUB-DOCUMENT-NUMBER: 20020055721

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020055721 A1

TITLE: Biocompatible pharmaceutical articles

PUBLICATION-DATE: May 9, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Palasis, Maria	Wellsley	MA	US	
Naimark, Wendy	Cambridge	MA	US	
Mickley, Timothy	Elk River	MN	US	
Crank, Justin	Minneapolis	MN	US	

US-CL-CURRENT: 604/265; 604/268

## ABSTRACT:

Many conventional pharmaceutical articles contain seemingly inert components that come into contact with a pharmaceutically active material during use, which contact substantially reduces the pharmaceutical effectiveness of the pharmaceutically active material. The invention described herein concerns various modifications to these incompatible components, which are effective to diminish the reduction in pharmaceutical effectiveness.

<a href="#">Full</a>	<a href="#">Title</a>	<a href="#">Citation</a>	<a href="#">Front</a>	<a href="#">Review</a>	<a href="#">Classification</a>	<a href="#">Date</a>	<a href="#">Reference</a>	<a href="#">Sequences</a>	<a href="#">Attachments</a>	<a href="#">Claims</a>	<a href="#">NMC</a>	<a href="#">Draw Desc</a>	<a href="#">Image</a>
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☐ 2. Document ID: US 20010041184 A1

L6: Entry 2 of 10

File: PGPB

Nov 15, 2001

PGPUB-DOCUMENT-NUMBER: 20010041184

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010041184 A1

TITLE: Nitric oxide-releasing metallic medical devices

PUBLICATION-DATE: November 15, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Fitzhugh, Anthony L.	Frederick	MD	US	
Cheng, Peiwen	Santa Rosa	CA	US	
Saavedra, Joseph	Thurmont	MD	US	
Cafferata, Robert	Belmont	MA	US	
Hendriks, Marc	Brunssum	MD	NL	
Keefer, Larry K.	Bethesda	CA	US	
Tedeschi, Eugene	Santa Rosa		US	
Verhoeven, Michel I.P.M.	Maastricht		NL	

US-CL-CURRENT: 424/400; 427/2.28

## ABSTRACT:

Biocompatible metallic medical devices having silanized surfaces coupled to nucleophile residues that release sustained, therapeutic amounts of nitric oxide to specific sites within a mammalian body are provided. Additionally, the biocompatible metallic medical devices can also be provided with anti-thrombogenic, lubricious coatings that release sustained, therapeutic amounts of nitric oxide. Moreover, the silanized metallic devices are surprisingly durable when exposed to harsh chemical methods often needed to bind nitric oxide-releasing functional groups to nucleophile residues. Furthermore, methods are provided for producing stable, silanized, sustained nitric oxide-releasing metallic medical devices.

Full	Title	Station	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	EWAC	Draw Desc	Image
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☐ 3. Document ID: US 6383500 B1

L6: Entry 3 of 10

File: USPT

May 7, 2002

US-PAT-NO: 6383500

DOCUMENT-IDENTIFIER: US 6383500 B1

TITLE: Particles comprising amphiphilic copolymers, having a crosslinked shell domain and an interior core domain, useful for pharmaceutical and other applications

DATE-ISSUED: May 7, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wooley, Karen L.	St. Louis	MO		
Thurmond, II; K. Bruce	St. Louis	MO		
Huang; Haiyong	St. Louis	MO		

US-CL-CURRENT: 424/401; 424/408, 424/439, 424/497, 424/78.13, 428/407

## ABSTRACT:

Provided are particles comprising amphiphilic copolymers, having a crosslinked shell domain and an interior core domain. Also provided are compositions comprising such particles, including pharmaceutical compositions, methods of making the present particles, and methods of using such particles, for example for delivery of pharmaceutically active agents.

98 Claims, 1 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	IMC	Draw Desc	Image
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☐ 4. Document ID: US 6270779 B1

L6: Entry 4 of 10

File: USPT

Aug 7, 2001

US-PAT-NO: 6270779

DOCUMENT-IDENTIFIER: US 6270779 B1

TITLE: Nitric oxide-releasing metallic medical devices

DATE-ISSUED: August 7, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fitzhugh; Anthony L.	Frederick	MD		
Cheng; Peiwen	Santa Rosa	CA		
Saavedra; Joseph	Thurmont	MD		
Cafferata; Robert	Belmont	MA		
Hendriks; Marc	Brunssum			NLX
Keefer; Larry K.	Bethesda	MD		
Tedeschi; Eugene	Santa Rosa	CA		
Verhoeven; Michel L. P. M.	Maastricht			NLX

US-CL-CURRENT: 424/400; 424/422, 424/423, 424/718, 424/78.27

## ABSTRACT:

Biocompatible metallic medical devices having silanized surfaces coupled to nucleophile residues that release sustained, therapeutic amounts of nitric oxide to specific sites within a mammalian body are provided. Additionally, the biocompatible metallic medical devices can also be provided with anti-thrombogenic, lubricious coatings that release sustained, therapeutic amounts of nitric oxide. Moreover, the silanized metallic devices are surprisingly durable when exposed to harsh chemical methods often needed to bind nitric oxide-releasing functional groups to nucleophile residues. Furthermore, methods are provided for producing stable, silanized, sustained nitric oxide-releasing metallic medical devices.

14 Claims, 3 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 5. Document ID: US 6254990 B1

L6: Entry 5 of 10

File: USPT

Jul 3, 2001

US-PAT-NO: 6254990

DOCUMENT-IDENTIFIER: US 6254990 B1

TITLE: Surface-crosslinking process for water-absorbent resin

DATE-ISSUED: July 3, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ishizaki; Kunihiro	Suita			JPX
Kanto; Teruyuki	Himeji			JPX
Sakamoto; Shigeru	Himeji			JPX
Harada; Nobuyuki	Suita			JPX
Hitomi; Kazuhisa	Himeji			JPX

US-CL-CURRENT: 428/402; 525/329.7, 525/330.1, 525/384

## ABSTRACT:

The present invention provides a surface-crosslinking process of a water-absorbent resin to obtain a water-absorbing agent which has high absorption speed and excellent absorption capacity under a load (a water-absorbent resin which has specific or larger values of properties). In a process comprising the step of adding a crosslinking agent to a dry water-absorbent resin powder to thereby crosslink the neighborhood of its surface, the surface-crosslinking is carried out while the resin powder having a weight-average particle diameter of 200 to 1,000 .mu.m is pulverized.

17 Claims, 3 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 6. Document ID: US 6228930 B1

L6: Entry 6 of 10

File: USPT

May 8, 2001

US-PAT-NO: 6228930

DOCUMENT-IDENTIFIER: US 6228930 B1

TITLE: Water-absorbent resin granule-containing composition and production process for water-absorbent resin granule

DATE-ISSUED: May 8, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dairoku; Yorimichi	Himeji			JPX
Ishizaki; Kunihiro	Suita			JPX
Hatsuda; Takumi	Takasago			JPX
Hitomi; Kazuhisa	Himeji			JPX
Kajikawa; Katsuhiro	Himeji			JPX
Yamada; Soichi	Himeji			JPX

US-CL-CURRENT: 524/500; 524/501, 524/502, 524/515

## ABSTRACT:

The invention provides: a water-absorbent resin granule-containing composition with resolution of various problems, as caused by water-absorbent resin fine powders, and with high granulation strength, and with no physical property deterioration due to granulation, and, if anything, with improvement of the absorption capacity under a load by granulation; and a process for producing the above granule. A water-absorbent resin primary particle and a water-absorbent resin granule are separately surface-crosslinked and then mixed, or mixed and then surface-crosslinked. The granulation is carried out by mixing a preheated aqueous liquid and a water-absorbent resin powder at a high speed or by supplying a water-absorbent resin powder downstream of an aqueous liquid with a continuous extrusion mixer.

14 Claims, 13 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 11

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 7. Document ID: US 5919442 A

L6: Entry 7 of 10

File: USPT

Jul 6, 1999

US-PAT-NO: 5919442

DOCUMENT-IDENTIFIER: US 5919442 A

TITLE: Hyper comb-branched polymer conjugates

DATE-ISSUED: July 6, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yin; Rui	Midland	MI		
Tomalia; Donald A.	Midland	MI		
Hedstrand; David M.	Midland	MI		
Swanson; Douglas R.	Midland	MI		
Baker, Jr.; James R.	Ann Arbor	MI		
Kukowska-Latallo; Jolanta F.	Ann Arbor	MI		

US-CL-CURRENT: 424/78.18; 424/1.11, 424/1.33, 424/1.37, 424/178.1, 424/184.1, 424/193.1, 424/280.1, 424/405, 424/406, 424/422, 424/486, 424/487, 424/78.01, 424/78.19, 424/84, 424/85.1, 424/9.1, 424/DIG.16, 435/455, 514/44, 514/772, 525/417, 525/539, 525/902

ABSTRACT:

A novel class of hyper comb-branched polymers conjugated with carried materials are disclosed.

92 Claims, 39 Drawing figures  
Exemplary Claim Number: 1  
Number of Drawing Sheets: 28

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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INAC	Draw Desc	Image
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☐ 8. Document ID: US 5782908 A

L6: Entry 8 of 10

File: USPT

Jul 21, 1998

US-PAT-NO: 5782908

DOCUMENT-IDENTIFIER: US 5782908 A

TITLE: Biocompatible medical article and method

DATE-ISSUED: July 21, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cahalan; Linda L.	Geleen			NLX
Cahalan; Patrick T.	Geleen			NLX
Verhoeven; Michel	Maastricht			NLX
Hendriks; Marc	Hoensbroek			NLX
Fouache; Benedicte	Maastricht			NLX

US-CL-CURRENT: 623/1.13; 424/422, 424/423, 427/2.24

## ABSTRACT:

A medical article having a metal or glass surface with the surface having an adherent coating of improved biocompatibility. The coating is made by first applying to the surface an silane compound having a pendant vinyl functionality such that the silane adheres to the surface and then, in a separate step, forming a graft polymer on the surface with applied vinylsilane such that the pendant vinyl functionality of the vinylsilane is incorporated into the graft polymer by covalent bonding with the polymer. Biomolecules may then be covalently attached to the base layer.

15 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Claims	Front	Review	Classification	Date	Reference	Sequences	Attachments
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☐ 9. Document ID: US 5672638 A

L6: Entry 9 of 10

File: USPT

Sep 30, 1997

US-PAT-NO: 5672638

DOCUMENT-IDENTIFIER: US 5672638 A

TITLE: Biocompatibility for solid surfaces

DATE-ISSUED: September 30, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Verhoeven; Michel	Maastricht			NLX
Cahalan; Linda L.	Geleen			NLX
Hendriks; Marc	Hoensbroek			NLX
Fouache; Benedicte	Maastricht			NLX
Cahalan; Patrick T.	Geleen			NLX

US-CL-CURRENT: 523/112; 424/423, 424/78.36, 427/2.25, 435/180, 435/181, 523/113, 623/924

## ABSTRACT:

An improved coating and spacer material for a medical device having a blood or tissue-contacting surface comprising a polyalkyleneimine layer which is crosslinked with a crosslinking agent which is at least difunctional in polymerizable vinyl groups which have adjacent strong electron-withdrawing groups and a biomolecule covalently bonded to the crosslinked polyalkyleneimine layer. For example, polyethyleneimine crosslinked with divinyl sulfone could be used. The resulting crosslinked spacer layer has improved uniformity and stability without materially limiting the covalent attachment of a biomolecule such as heparin.

6 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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☐ 10. Document ID: US 5607475 A

L6: Entry 10 of 10

File: USPT

Mar 4, 1997

US-PAT-NO: 5607475

DOCUMENT-IDENTIFIER: US 5607475 A

TITLE: Biocompatible medical article and method

DATE-ISSUED: March 4, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cahalan; Linda L.	Geleen			NLX
Cahalan; Patrick T.	Geleen			NLX
Verhoeven; Michel	Maastricht			NLX
Hendriks; Marc	Hoensbroek			NLX
Fouache; Benedicte	Maastricht			NLX

US-CL-CURRENT: 424/423; 424/422, 427/2.24, 623/23.59, 623/924

## ABSTRACT:

A medical article having a metal or glass surface with the surface having an adherent coating of improved biocompatibility. The coating is made by first applying to the surface an silane compound having a pendant vinyl functionality such that the silane adheres to the surface and then, in a separate step, forming a graft polymer on the surface with applied vinylsilane such that the pendant vinyl functionality of the vinylsilane is incorporated into the graft polymer by covalent bonding with the polymer. Biomolecules may then be covalently attached to the base layer.

12 Claims, 0 Drawing figures

Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KMC	Draw Desc	Image
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Term	Documents
(4 AND 5).USPT,PGPB,JPAB,EPAB,DWPI.	10
(L5 AND L4).USPT,PGPB,JPAB,EPAB,DWPI.	10

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# WEST Search History

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side by side			result set
<i>DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ</i>			
L18	L17 and (hydrogel or acryl\$3 adj polymer)	6	L18
L17	14 and 11	18	L17
L16	14 and 12	0	L16
L15	L14 and nitric oxide	12	L15
L14	11 and 12	278	L14
L13	L12 and 12	0	L13
L12	14 and 11	18	L12
L11	17 and 15	2	L11
L10	L9 and 15	2	L10
L9	L8 and 11	14	L9
L8	13 and 12	17	L8
L7	\$30silane and 11 and 12	17	L7
L6	11 and 12 and diazeniumdiolate	0	L6
L5	nitric oxide and 11 and 12	12	L5
L4	nitric oxide and diazeniumdiolate	27	L4
L3	pei or polyethylenimine	7954	L3
L2	coat\$3 and hydrogel and acryl\$3 polymer	588	L2
L1	stent or graft or guide wire or catheter	161759	L1

END OF SEARCH HISTORY



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(L8 AND L4).USPT,PGPB,JPAB,EPAB,DWPI.	4

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DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ

<u>L10</u>	18 and 14	4	<u>L10</u>
<u>L9</u>	L8 and 16	2	<u>L9</u>
<u>L8</u>	diazoniumdiolate and 17	27	<u>L8</u>
<u>L7</u>	nitric oxide	9262	<u>L7</u>
<u>L6</u>	L5 and 14	10	<u>L6</u>
<u>L5</u>	(pei or polyethylenimine) and coat\$3	3248	<u>L5</u>
<u>L4</u>	L3 and \$30silane	102	<u>L4</u>
<u>L3</u>	L2 and 11	1363	<u>L3</u>
<u>L2</u>	coat\$3 and hydrogel and acryl\$3	3411	<u>L2</u>
<u>L1</u>	stent or graft or guide wire or catheter	161644	<u>L1</u>

END OF SEARCH HISTORY